

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended) A vital data utilization system comprising:

a server;

a receiving apparatus; and

a plurality of measurement instruments,

wherein said server, said receiving apparatus and said measurement instruments are connected via a communication network,

wherein each of said measurement instruments includes:

a vital data measurement device ~~that measures~~operable to measure vital data of a respective subject, the vital data serving as an indicator of an infection; and

a sending device ~~that sends~~operable to send, to said server, the measured vital data,

wherein said server includes:

a receiving device ~~that receives~~operable to receive a plurality of vital data including the measured vital data, the plurality of vital data being received from said plurality of measurement instruments;

a storage device ~~that stores~~operable to store each ~~vital data~~ of the plurality of ~~received~~ vital data, each of the plurality of vital data being stored in association with at least one of (i) measurement position information indicating a position of a respective measurement instrument ~~of~~ included in said plurality of measurement instruments and (ii) residence information indicating a position of a respective residence of a subject at which the respective measurement instrument is placed;

a database making device ~~operable to store~~that stores the plurality of ~~received~~ vital data into said storage device and ~~makes operable to make~~ a database including the plurality of ~~received~~ vital data, each ~~respective vital data~~ of the plurality ~~received~~ of vital data being stored in the database in association with at least one of ~~the~~ (i) the measurement position information and (ii) the residence information;

a value-added information making device ~~operable to process~~that processes each ~~respective of the plurality of~~ vital data stored in the database for ~~each~~ the respective subject identified in the database, the processing being based on the at least one of ~~the~~ (i) the measurement position information and (ii) the residence information, which are associated with each ~~of the plurality of~~ respective vital data stored in the database, and ~~makes operable to make~~, from the ~~processed plurality of~~ vital data, value-added information indicating, ~~using contour lines on a map~~, a geographical distribution of average values of epidemic degrees of the infection indicated by each respective the plurality of vital data stored in the database, the geographical distribution representing the average values using shading such that the shading becomes darker as the average values increase and such that the shading becomes lighter as the average values decrease; and

a value-added information providing device ~~operable to provide~~that provides said receiving apparatus with the value-added information, and

wherein said receiving apparatus includes an output device ~~operable to receive~~that receives the value-added information provided by said value-added information providing device, and presents and outputs ~~operable to present and output, using the contour lines on the map~~, the geographical distribution of ~~the epidemic degrees of the infection~~ the average values of

the plurality of vital data, the geographical distribution representing the average values using shading such that the shading becomes darker as the average values increase and such that the shading becomes lighter as the average values decrease.

Claim 2 (Currently Amended) The vital data utilization system according to Claim 1,
wherein each measurement instrument ~~of~~ included in said plurality of measurement instruments further includes a clock device ~~operable to detect~~ that detects a measurement time at which the vital data is measured,
wherein said sending device ~~is operable to send~~ sends, to said server, a set of information including the measured vital data and the measurement time,
wherein said receiving device of said server ~~is operable to receive~~ receives, from said plurality of measurement instruments, a plurality of sets of information,
wherein said storage device of said server ~~is operable to store~~ stores the plurality of sets of information, each respective set of information including respective vital data and a respective measurement time and each respective set of information being stored in association with at least one of ~~the~~ (i) the measurement position information and (ii) the residence information,
wherein said database making device of said server ~~is operable to store~~ stores the plurality of received sets of information into said storage device and ~~makes operable to make~~ a database including the plurality of received sets of information, each respective set of information being stored in the database in association with at least one of the (i) measurement position information and (ii) residence information, and
wherein said value-added information making device of said server ~~is operable to process~~.

~~processes~~ each ~~respective~~-vital data of each respective set of information stored in the database for ~~each~~ the respective subject identified in the database in association with a respective measurement time and ~~makes operable to make~~, from the ~~processed~~ ~~respective~~-vital data stored in the database for each subject identified in the database in association with the respective measurement time, value-added information indicating, ~~using contour lines on maps~~, changes over time of geographical distributions of ~~average values~~ ~~epidemic degrees of the infection~~ indicated by ~~each~~ ~~respective~~ the vital data stored in the database, the geographical distributions representing the changes over time of the average values using shading such that the shading becomes darker as the average values increase and such that the shading becomes lighter as the average values decrease.

Claim 3 (Currently Amended) The vital data utilization system according to Claim 1, wherein said vital data measurement device ~~is operable to~~ quantitatively measures ~~measure~~ the subjects' vital data.

Claim 4 (Currently Amended) The vital data utilization system according to Claim 1, wherein said sending device adds ~~is operable to add~~, to respective sets of information, each respective set of information including ~~respective~~-vital data, respective measurement instrument identification information identifying a corresponding measurement instrument and ~~operable to send~~ sends the respective sets of information including the respective measurement identification information to said server,

wherein said storage unit ~~is operable to store~~ stores the plurality of sets of information,

each respective set of information including ~~respective~~-vital data and respective measurement instrument identification information and each respective set of information being stored in association with at least one of ~~the~~ (i) the measurement position information and (ii) the residence information,

wherein said value-added information making device reads out ~~is operable to read out~~, from said storage device, at least one of ~~the~~ (i) the measurement position information and (ii) the residence information, based on the measurement instrument identification information received from the server, and ~~operable to process~~ processes the ~~respective~~-vital data based on at least one of the read-out information.

Claim 5 (Currently Amended) The vital data utilization system according to Claim 1,

wherein said sending device adds ~~is operable to add~~, to respective sets of information, each respective set of information including ~~respective~~-vital data, at least one of ~~the~~ (i) the measurement position information and (ii) the residence information, and ~~operable to send~~ sends the respective sets of information to said server, and

wherein said value-added information making device ~~is operable to process~~ processes the ~~respective~~-vital data, of each respective set of information received from said sending unit, based on at least one of ~~the~~ (i) the measurement position information received from said sending device and (ii) the residence information received from said sending device.

Claim 6 (Currently Amended) The vital data utilization system according to Claim 1,

wherein said database making device updates ~~is operable to update~~ the database each

time at least one new set of information including the vital data is received, and

wherein said value-added information making device ~~updates-is operable to update~~ the value-added information based on the updated database.

Claim 7 (Previously Presented) The vital data utilization system according to Claim 1, wherein said receiving apparatus is placed in at least one of a hospital, a public facility excluding a hospital, and a house of a subject.

Claim 8 (Cancelled)

Claim 9 (Previously Presented) The vital data utilization system according to Claim 1, wherein the vital data is at least one of body temperature, blood pressure, pulse, cardiograph, oxygen saturation in blood, accelerated pulse wave velocity, a number of white blood cells, C-reactive protein concentration in blood (CRP), protein concentration in urine, glucose concentration in urine, amino acid concentration in urine and feces viscosity.

Claim 10 (Previously Presented) The vital data utilization system according to Claim 9, wherein the protein concentration in urine is at least one of albumin, globulin, hemoglobin and myoglobin.

Claim 11 (Previously Presented) The vital data utilization system according to Claim 1, wherein said vital data measurement device is located at housing equipment in a house of the

subject.

Claim 12 (Previously Presented) The vital data utilization system according to Claim 11, wherein the housing equipment is one of a toilet apparatus and a bed, and wherein said vital data measurement device includes at least one of a thermometer, a blood-pressure meter, a pulsimeter, an electrocardiograph, and a meter of oxygen saturation in blood, for measuring the vital data, and said vital data measurement device measures the vital data at a time when the subject uses one of the toilet apparatus and the bed.

Claim 13 (Previously Presented) The vital data utilization system according to Claim 11, wherein the housing equipment is a toilet apparatus, and wherein said vital data measurement device includes a urine analyzer and measures the vital data at a time when the subject uses the toilet apparatus.

Claim 14 (Previously Presented) The vital data utilization system according to Claim 13, wherein the urine analyzer (i) mixes urine of the subject and a reagent including an antibody that specifically combines with an analysis target component, (ii) measures turbidity of a resulting mixed solution, and (iii) measures the analysis target component in the urine.

Claim 15 (Currently Amended) The vital data utilization system according to Claim 1, wherein said server further includes a charging device ~~that calculates~~ ~~operable to calculate~~ a charge for value-added information provided to said receiving apparatus.

Claim 16 (Currently Amended) The vital data utilization system according to Claim 15, wherein said server further includes an incentive calculation device that calculates ~~operable to calculate~~ an incentive for each subject.

Claim 17 (Currently Amended) The vital data utilization system according to Claim 16, wherein said incentive calculation device adds ~~is operable to add~~, to a charge calculated by said charging device, a value of the incentive for each subject.

Claim 18 (Currently Amended) The vital data utilization system according to Claim 16, wherein said incentive calculation device calculates ~~is operable to calculate~~ points to be exchanged for at least one of (i) a right to receive the value-added information, (ii) a right to receive a discount from a rate of the value-added information, (iii) a right to receive a free distribution of or a discount from a sale price of a commodity to be used by said vital data measurement device, (iv) a right to receive another service, and (v) a right to receive a free distribution of or a discount from a sale price of another commodity.

Claim 19 (Currently Amended) The vital data utilization system according to Claim 1, wherein said receiving apparatus is a mobile type apparatus and further includes a present position detection device ~~operable to detect~~ that detects a present position, and wherein said output device ~~is operable to receive~~ receives value-added information indicating a geographical distribution of average values ~~of epidemic degrees of the infection~~

~~indicated by each respective~~ of the vital data of respective subjects located at the detected present position and located at a peripheral part of the detected present position, and presents and outputs operable to present and output, using contour lines on a map, the geographical distribution of the average values of the vital data of the respective subjects located at the detected present position and located at the peripheral part of the detected present position ~~of the epidemic degrees of the infection,~~ the geographical distribution representing the average values of the vital data using shading such that the shading becomes darker as the average values increase and such that the shading becomes lighter as the average values decrease.

Claim 20 (Currently Amended) A server in a system in which said server, a receiving apparatus and a plurality measurement instruments are connected via a communication network, said server comprising:

a receiving device ~~operable to receive~~ that receives a plurality of sets of information, each respective set of information including ~~respective~~-measured vital data and a respective measurement time at which the ~~respective~~-vital data is measured, the plurality of sets of information being received from the plurality of measurement instruments, the vital data serving as an indicator of an infection;

a storage device ~~operable to store~~ that stores each respective set of information of the plurality of received sets of information, each respective set of information being stored in association with at least one of (i) measurement position information indicating a position of a respective measurement instrument included in ~~of~~ the plurality of measurement instruments and (ii) residence information indicating a position of a respective residence of a subject at which the

respective measurement instrument is placed;

a database making device ~~operable to store~~that stores the plurality of received sets of information into said storage device and ~~makes operable to make~~ a database including the plurality of received sets of information, each respective set of information of the plurality of received sets of information being stored in the database in association with at least one of ~~the~~ (i) the measurement position information and (ii) the residence information;

a value-added information making device ~~operable to process~~that processes each ~~respective the~~ vital data of each respective set of information stored in the database for each respective subject identified in the database in association with a respective measurement time at which ~~respective the~~ vital data is measured, and ~~makes operable to make~~, from ~~the processed~~ ~~respective the~~ vital data stored in the database for each subject identified in the database in association with the respective measurement time, value-added information indicating, ~~using contour lines on maps,~~ geographical distributions of average values of epidemic degrees of the infection indicated by each respective the vital data or changes over time of the geographical distributions of the average values of epidemic degrees of the infection indicated by each ~~respective the~~ vital data, based on at least one of the measurement position information and the residence information, the geographical distributions representing the average values and the changes over time of the average values using shading such that the shading becomes darker as the average values increase and such that the shading becomes lighter as the average values decrease; and

a value-added information providing device ~~operable to provide~~that provides the receiving apparatus with the value-added information.

Claim 21 (Currently Amended) The server according to Claim 20,

wherein said receiving device ~~is operable to receive~~ receives, from each respective measurement instrument, a respective set of information to which measurement instrument identification information identifying the respective measurement instrument is added,

wherein said storage device ~~previously stores~~ is operable to previously store at least one of ~~the~~ (i) the measurement position information and (ii) the residence information, and

wherein said value-added information making device reads out ~~is operable to read out~~, from said storage device, at least one of ~~the~~ (i) the measurement position information and (ii) the residence information, based on the received measurement instrument identification information, and ~~operable to process~~ processes the ~~respective~~ vital data based on at least one of the read-out information.

Claim 22 (Currently Amended) The server according to Claim 20,

wherein said receiving device ~~is operable to receive~~ receives, from each respective measurement instrument, a respective set of information to which at least one of ~~the~~ (i) the measurement position information and (ii) the residence information is further added, and

wherein said value-added information making device ~~is operable to process~~ processes the ~~respective~~ vital data based on at least one of ~~the~~ (i) the received measurement instrument position information and (ii) the received residence information.

Claim 23 (Currently Amended) The server according to Claim 20,

wherein said database making device ~~is operable to update~~updates the database each time at least one new set of information including the measured vital data is received, and

wherein said value-added information making device ~~is operable to update~~updates the value-added information based on the updated database.

Claim 24 (Currently Amended) A vital data utilization method of using a system in which a server, a receiving apparatus, and a plurality of measurement instruments are connected via a communication network, said vital data utilization method comprising:

using each respective the measurement instrument for:

measuring ~~respective~~-vital data of a respective subject, the vital data serving as an indicator of an infection;

detecting a respective measurement time at which the ~~respective~~-vital data is measured; and

sending, to the server, a respective set of information including the measured-~~respective~~ vital data and the respective measurement time;

using the server, including a storage device ~~operable to store~~that stores a plurality of sets of information, each set of information including measured ~~respective~~-vital data and a respective measurement time, for:

receiving, from the plurality of measurement instruments, the plurality of sets of information;

storing each respective set of information of the plurality of received sets of information into the storage device, each respective set of information being stored in association

with at least one of (i) measurement position information indicating a position of a respective measurement instrument included in of the plurality of measurement instruments and (ii) residence information indicating a position of a respective residence of a subject at which the respective measurement instrument is placed;

making a database including the plurality of received sets of information;

making value-added information indicating, ~~using contour lines on maps,~~
geographical distributions of ~~epidemic degrees of the infection indicated by~~ average values of
~~each respective~~ the vital data included in the database or changes over time of the geographical
distributions of the average values of the vital data included in the database, based on at least one
of ~~the~~ (i) the measurement position information and (ii) the residence information associated
with each respective set of information identifying a respective subject stored in the database, the
geographical distributions representing the average values and the changes over time of the
average values using shading such that the shading becomes darker as the average values
increase and such that the shading becomes lighter as the average values decrease; and

providing the receiving apparatus with the value-added information; and

using the receiving apparatus for presenting and outputting the value-added information
provided in said providing of the value-added information.

Claim 25 (Currently Amended) A vital data utilization method of using a server in a system
in which the server, a receiving apparatus, and a plurality of measurement instruments are
connected via a communication network, the server including a storage device ~~operable to~~
~~store~~ that stores sets of information including vital data, said vital data utilization method

comprising:

receiving, from the plurality of measurement instruments, a plurality of sets of information, each respective set of information including measured ~~a respective~~ vital data and a respective measurement time at which the ~~respective~~ vital data is measured, the vital data serving as an indicator of an infection;

storing each respective set of information of the plurality of received sets of information into the storage device, each respective set of information being stored in association with at least one of (i) measurement position information indicating a position of a respective measurement instrument ~~of~~ included in the plurality of measurement instruments and (ii) residence information indicating a position ~~position~~ of a respective residence of a respective subject at which the respective measurement instrument is placed;

making a database including the plurality of received sets of information;

making value-added information indicating, ~~using contour lines on maps,~~ geographical distributions ~~of epidemic degrees of the infection indicated by~~ of average values of each ~~respective~~ the vital data included in the database or changes over time of the geographical distributions of the average values of the vital data included in the database, based on at least one of ~~the~~ (i) the measurement position information and (ii) the residence information included in each respective set of information identifying a respective subject stored in the database, the geographical distributions representing the average values and the changes over time of the average values using shading such that the shading becomes darker as the average values increase and such that the shading becomes lighter as the average values decrease; and

providing the receiving apparatus with the value-added information.

Claim 26 (Cancelled)

Claim 27 (Currently Amended) A computer-readable recording medium having a program recorded thereon, the program causing a computer to execute a method comprising:

receiving, from a plurality of measurement instruments, a plurality of sets of information, each respective set of information including measured ~~respective~~ vital data and a respective measurement time at which the ~~respective~~ vital data is measured, the vital data serving as an indicator of an infection;

storing each respective set of information of the plurality of sets of information into the storage device, each respective set of information being stored in association with at least one of (i) measurement position information indicating a position of a respective measurement instrument ~~of~~ included in the plurality of measurement instruments and (ii) residence information indicating a position of a respective residence of a respective subject at which the respective measurement instrument is placed;

making a database including the plurality of received sets of information;

making value-added information indicating, ~~using contour lines on maps,~~ geographical distributions ~~of epidemic degrees of the infection indicated by~~ of average values of each ~~respective~~ the vital data included in the database or changes over time of the geographical distributions of the average values of the vital data included in the database, based on at least one of ~~the~~ (i) the measurement position information and (ii) the residence information included each respective set of information identifying a respective subject stored in the database, the

geographical distributions representing the average values and the changes over time of the average values using shading such that the shading becomes darker as the average values increase and such that the shading becomes lighter as the average values decrease; and
providing the receiving apparatus with the value-added information.

Claim 28 (Cancelled)

Claim 29 (Currently Amended) A receiving apparatus in a system in which a server, said receiving apparatus and a plurality of measurement instruments are connected via a communication network, said receiving apparatus comprising:

an output device ~~operable to receive~~that receives information provided by the server, and presents and outputs ~~operable to present and output~~ the received information,

wherein each of the measurement instruments includes:

a vital data measurement device ~~that measures~~operable to measure ~~respective~~ vital data of a respective subject, the vital data serving as an indicator of an infection;

a clock device ~~operable to detect~~that detects a respective measurement time at which the ~~respective~~ vital data is measured; and

a sending device ~~operable to send~~that sends, to the server, a respective set of information including the ~~respective~~ vital data and the respective measurement time,

wherein the server includes:

a receiving device ~~operable to receive~~that receives a plurality of sets of information, each respective set of information including the ~~respective~~ vital data and the

respective measurement time, the plurality of sets of information being received from the plurality of measurement instruments,;

a storage device ~~operable to store~~that stores each respective set of information of the plurality of sets of information, each set of information being stored in association with at least one of (i) measurement position information indicating a position of a respective measurement instrument ~~of~~ included in the plurality of measurement instruments and (ii) residence information indicating a position of a residence of a subject at which the respective measurement instrument is placed;

a database making device ~~operable to store~~that stores the plurality of received sets of information into the storage device and ~~makes operable to make~~ a database including the plurality of received sets of information, each respective set of information being stored in the database in association with at least one of ~~the~~ (i) the measurement position information and (ii) the residence information;

a value-added information making device ~~operable to process~~that processes each ~~respective~~ vital data of each respective set of information stored in the database for ~~each~~ the respective subject identified in the database in association with the respective measurement time and ~~makes operable to make~~, from the ~~processed respective~~ vital data of each respective set of information stored in the database for each subject identified in the database in association with the respective measurement time, value-added information indicating, ~~using contour lines on maps,~~ geographical distributions ~~of epidemic degrees of the infection indicated by~~ of average values of each respective the vital data stored in the database or changes over time of the geographical distributions of the average values ~~epidemic degrees of the infection indicated by~~

~~each respective~~ of the vital data stored in the database, the geographical distributions representing the average values and the changes over time of the average values using shading such that the shading becomes darker as the average values increase and such that the shading becomes lighter as the average values decrease; and

a value-added information providing device ~~operable to provide~~ that provides said receiving apparatus with the value-added information; and

wherein said output device ~~is operable to receive~~ receives the value-added information provided by said value-added information providing device, and ~~operable to present and output~~ presents and outputs, ~~using the contour lines on the maps,~~ the geographical distributions of the average values of the vital data stored in the database or the changes over time of the ~~geographical distributions of the average values of the vital data stored in the database~~ ~~epidemic degrees of the infection,~~ the geographical distributions representing the average values and the changes over time of the average values using shading such that the shading becomes darker as the average values increase and such that the shading becomes lighter as the average values decrease.

Claim 30 (Currently Amended) The receiving apparatus according to Claim 29, the receiving apparatus being a mobile type apparatus and further comprising a present position detection device ~~operable to detect~~ that detects a present position,

wherein said output device ~~is operable to receive~~ receives value-added information indicating a geographical distribution of ~~epidemic degrees of the infection indicated by average values of each respective~~ the vital data of respective subjects located at the detected present

position and located at a peripheral part of the detected present position, and presents and
outputs operable to present and output, using the contour lines on the maps, the geographical
distributions of the average values of the vital data of the respective subjects located at the
detected present position and located at the peripheral part of the detected present position, the
geographical distributions representing the average values using shading such that the shading
becomes darker as the average values increase and such that the shading becomes lighter as the
average values decrease of the epidemic degrees of the infection.